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APPLICATION N	IO. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,389		10/31/2003	Chung Cheung	HKPC/370/US	3269	
2543	7590	08/25/2005		EXAM	EXAMINER	
	ALE & RIS	TAS LLP	LANGDON, EVAN H			
750 MAI SUITE 14	N STREET 400			ART UNIT	PAPER NUMBER	
HARTFO	ORD, CT 06	5103		3654	3654	
				DATE MAILED: 08/25/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	4				
		10/699,389	CHEUNG, CHUNG					
	Office Action Summary	Examiner	Art Unit					
		Evan H. Langdon	3654					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🗌	Responsive to communication(s) filed on	<u> </u>						
2a) <u></u> □	This action is <b>FINAL</b> . 2b)	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the men								
	closed in accordance with the practice ur	nder <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.					
Disposition of Claims								
4) 🖂	Claim(s) <u>1-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· ·	5) Claim(s) is/are allowed.							
·	S) Claim(s) 1.2,4,6,8-14 and 17-20 is/are rejected.							
/*	7) Claim(s) 3,5,7,15 and 16 is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.							
op diam(s) are subject to restriction and/or election requirement.								
	ion Papers							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
•								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
a) ☐ All b) ☐ Some c) ☐ None of.  1. ☐ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	(f(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date								

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#### **DETAILED ACTION**

## Specification

The disclosure is objected to because of the following informalities:

Page 4, line 14 and page 5, line 1, "crown gear 8".

Page 4, line 25, "gear base surface 14".

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6, 10, 12-14 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Honda (US 5,203,224).

In regards to claim 1 and 12, Honda discloses a gear couple comprising:

a first gear 10 having a first meshing base, the first meshing base being covered by a first layer 13 which includes the element gold (col. 2, line36) disposed substantially uniformly over the meshing base;

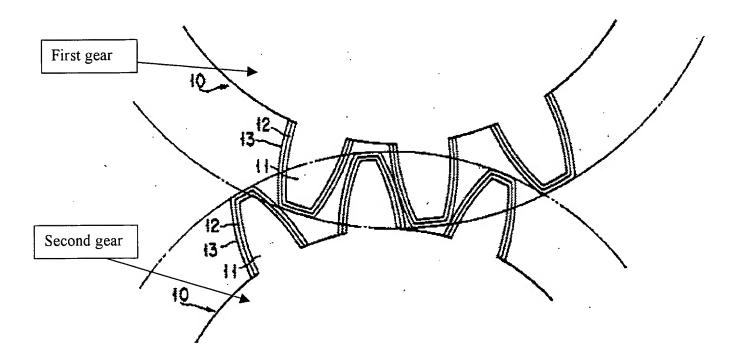
a second gear 10 (see below) having a second meshing base, the second meshing base being covered by a second layer which includes the element chromium 12 (col. 2, line 65-67) disposed substantially uniformly over the meshing base,

wherein the first layer and the second layer engage in meshing contact.

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The recitation in the preamble of claim 1 that the gear coupling is a gear coupling in a fishing reel, relates only to a possible or intended use of the device being claimed, but does not further structurally limit the device.



In regards to claims 2 and 13, Honda discloses a first intermediate layer 12 between the first meshing base and the first layer 13.

In regards to claims 4 and 14, Honda discloses a second intermediate layer (manganese phosphate layer and chromium nitrate layer, col. 2 line 65 – col. 3 line 2).

In regards to claims 6 and 17, Honda discloses a first intermediate layer disposed between the second meshing base and the second layer (manganese phosphate layer and chromium nitrate layer, col. 2 line 65 – col. 3 line 2).

In regards to claims 10, Honda discloses the gears as spur gears.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8, 9, 11 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Honda.

With respect to claims 8 and 18, Honda does not disclose specific values for the thicknes of the first layer. However, one of ordinary skill in the art is expected to routinely experiment with the parameters, especially when the specifics are not disclosed, so as to ascertain the optimum or workable ranges for a particular use. Accordingly, it would have been obvious through routine experimentation and optimization, for one of ordinary skill in the art to create a layer having a thickness of about 0.005mm to accommodate for its particular application.

In regards to claims 9, 11, 19 and 20, it would have been obvious to one of ordinary skill in the art at the time the invention was made to place the layers on any one of conventional gear types, such as a crown gear, or to gears made of any conventionally used materials, such as zinc or brass.

#### Allowable Subject Matter

Claims 3, 5, 7, 15 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Evan H. Langdon whose telephone number is (571)272-6948. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ehl

WILLIAM A. RIVERA PRIMARY EXAMINER